| | Claims | |
|--|--------|--|
| | | |

| Application No. | Applicant(s) | |
|------------------|--------------|--|
| 10/647,011 | KLEIN ET AL. | |
| Examiner | Art Unit | |
| William K Cheung | 1713 | |

| √ | Rejected | |
|----------|----------|--|
| = | Allowed | |

| | (Through numeral) Cancelled |
|---|--------------------------------|
| ÷ | Restricted |

| N | Non-Elected | A |
|---|--------------|---|
| 1 | Interference | 0 |

| A | Appeal |
|---|----------|
| 0 | Objected |

| 1 | (| Claim | | | _ | | _ | _ | _ | _ | Da | ate | е | | | | | _ |
|----------|----------------|-----------------------|----------|----------|--------------|----------|---|--------------|---|----------|----|-----|-----------------|----------|----------|----------|---|----------|
| | Final | T- | | 11/16/04 | | _ | | | | | | | | | | | | |
| ŀ | 1 | _ | _ | _ | + | _ | ╁ | _ | H | _ | H | - | L | + | | H | 4 | |
| ł | 2 | + ; | | 1 | † | - | + | _ | H | | H | | - - | ╁ | | ┝ | 4 | _ |
| ŀ | 3 | 3 | | 1 | † | _ | t | _ | H | | H | - | _ | ╁ | | ┝ | ┪ | _ |
| t | 4 | 4 | \dashv | 1 | t | | t | _ | H | _ | H | ٦ | - | + | | ┝ | + | |
| ļ | 4 5 | 1 2 3 4 5 | _ | 1 | + | | t | _ | H | - | H | 1 | _ | ╁ | _ | ┝ | 1 | - |
| t | 6 | 6 | 7 | 1 | t | _ | t | - | H | - | H | 1 | _ | + | - | ┝ | + | _ |
| t | 7 | 7 | 7 | 1 | t | _ | t | | H | _ | - | 1 | _ | ╁╴ | _ | \vdash | + | _ |
| ı | 8 | 8 | T | 1 | † | _ | t | | - | T | _ | 1 | | t | | Η. | + | |
| Ī | 9 | 9 | 7 | 1 | Ť | _ | t | | Т | ┪ | - | 1 | | + | | - | † | |
| Ţ | 10 | 10 | 7 | 7 | 1 | | T | | Г | | | 7 | | t | ٦ | Н | 7 | |
| ſ | 11 | 11 | П | T | T | | T | | | | | 7 | | T | 7 | _ | 1 | |
| | 12 | 12 | ? | T | T | _ | T | 7 | _ | 7 | _ | 7 | _ | T | 7 | _ | † | |
| Γ | 11 12 13 | 13 | 3 | Ť | T | | | 7 | _ | 7 | | † | | T | 7 | _ | † | П |
| Ĺ | 14 15 | 12 13 14 15 | | I | Γ | | Г | | | | _ | 7 | | Г | ٦ | _ | 1 | |
| L | 15 | 15 | | | | | | | | | | 1 | _ | Γ | 7 | | Ť | |
| L | 16 | 16 17 18 | | L | | | | | _ | \perp | | I | | | | _ | T | |
| L | 17 | 17 | 1 | L | L | | | | _ | | | I | | | | | T | |
| L | 18 | 18 | 4 | L | L | | | | | | | | | | | | I | |
| L | 19 | 19 | 4 | V | L | ╝ | | \downarrow | | 1 | | 1 | | | 1 | _ | Ι | |
| ļ | 20 | 20 | 4 | <u>¥</u> | L | 4 | _ | 4 | | 4 | _ | 1 | | _ | 1 | _ | | |
| \vdash | | 81 | 4 | _ | Ļ | 4 | | 4 | | 4 | _ | 1 | | | 1 | | 1 | |
| \vdash | | 22 23 | + | _ | L | 4 | | 4 | _ | 4 | _ | 4 | _ | L_ | 4 | _ | 4 | ┙ |
| \vdash | | 23 | + | | L | 4 | _ | 4 | | 1 | | 1 | _ | | 4 | _ | ļ | 4 |
| ⊦ | | 25 | + | _ | L | 4 | _ | + | _ | 4 | _ | + | | _ | 4 | | + | 4 |
| \vdash | | 26 | + | _ | ┝ | + | _ | + | _ | + | _ | + | - | | 4 | _ | 4 | 4 |
| H | | 27 | +- | - | - | + | _ | + | _ | + | _ | ╀ | \dashv | | + | | ╀ | \dashv |
| H | | 27 28 | ╁ | - | H | + | - | $^{+}$ | | $^{+}$ | - | ╁ | | | + | | ╀ | 4 |
| H | _ | 29 | + | _ | H | + | | + | _ | + | _ | ╁ | - | | ╁ | | ╁ | \dashv |
| 卜 | | 30 | t | i | | + | | + | - | $^{+}$ | | ╁ | + | | + | _ | ╁ | - |
| r | | 31 | † | | - | † | | t | _ | † | | t | | | t | _ | t | ┥ |
| Γ | | 32 | 十 | | _ | t | _ | † | _ | t | | t | 7 | _ | † | - | t | ┪ |
| r | | 33 | T | 7 | | † | | Ť | _ | t | _ | t | 7 | _ | t | _ | t | 7 |
| | | 34 | T | | | † | _ | T | _ | t | _ | t | T | _ | t | _ | H | ┨ |
| C | | 35 | Τ | | | T | | T | | T | _ | T | 7 | | T | _ | T | ٦ |
| | | 36 | | | | T | | T | | 1 | | Г | 7 | | T | | T | 7 |
| L | | 37 | Ĺ | _[| | I | Ξ | I | | Γ | | | | | Γ | _ | | |
| L | | 38 | L | 1 | _ | 1 | _ | L | _ | Ĺ | _ | Ĺ | \perp | | L | | | |
| L | | 39 | Ļ | 4 | | 1 | _ | Ļ | | L | | L | 1 | | Ĺ | | Ĺ | |
| L | _ | 40 | L | 4 | | 1 | _ | L | | L | | L | 4 | _ | L | | L | |
| L | _ | 41 | \vdash | 4 | | ╀ | | L | _ | L | | L | 4 | | L | _ | L | |
| L | _ | 42 43 | - | + | | ╀ | _ | ╀ | | - | _ | L | 4 | | L | _ | L | 4 |
| - | _ | 44 | ├ | + | _ | ╀ | _ | ⊦ | _ | L | 4 | - | + | _ | L | 4 | | 4 |
| - | \dashv | 45 | - | + | | + | _ | ┞ | _ | \vdash | | _ | + | _ | \vdash | - | _ | 4 |
| _ | \dashv | 46 | \vdash | + | _ | ╀ | | - | - | H | - | _ | + | | H | 4 | _ | + |
| _ | - | 47 | \vdash | + | | \vdash | | \vdash | - | \vdash | 4 | _ | + | - | L | -} | | \dashv |
| _ | - | 48 | \vdash | + | _ | H | _ | \vdash | - | H | + | _ | + | \dashv | - | 4 | | + |
| _ | \dashv | 49 | - | + | _ | H | ┪ | ┝ | - | - | + | _ | + | \dashv | _ | + | | ┨ |
| _ | | <u>-το</u> | \vdash | + | | \vdash | _ | \vdash | _ | _ | 4 | _ | 4 | _ | _ | 4 | | 4 |

| 1 | CI | aim | 7- | | | | | | D: | ate | | | | | _ |
|----------|----------|----------|----------|-----------|-----------|--------------|--------------|----------|----|--------------|------------|--------|----------|-----------|---|
| | | +- | Т | _ | Т | Т | _ | Ť | T | - | | _ | Т | _ | |
| | Final | Original | | | | | | | | | | | | | |
| Ì | | 51 | | \dagger | _ | r | 1 | _ | t | \dagger | _ | | t | + | - |
| - } | | 52 | Τ | | | Γ | Т | | Γ | \top | | | T | 7 | |
| Ī | | 53 | Т | T | | Г | T | _ | T | \top | ┪ | | t | 十 | _ |
| 1 | | 54 | 1- | † | _ | | + | | 1 | + | 7 | _ | ╁ | ╁ | _ |
| Ì | | 55 | T | t | _ | ┢ | † | _ | f | + | \dashv | - | ╁╌ | + | _ |
| Ì | | 56 | ╁╌ | + | _ | - | + | | ┝ | + | + | | ╁╴ | + | _ |
| ŀ | | 57 | ╁╌ | t | - | - | + | | ⊢ | + | + | | ⊢ | + | - |
| ŀ | | 58 | ╁ | + | - | - | + | | - | | + | _ | ⊢ | + | _ |
| ŀ | | 59 | + | ╁ | - | - | + | - | H | + | -+ | | ⊢ | + | _ |
| ŀ | _ | 60 | ╁ | + | | _ | ╁ | _ | H | + | ┥ | | ├ | ┿ | _ |
| f | | 61 | 1- | + | ┪ | _ | + | _ | ┝ | +- | + | | ⊢ | ┿ | _ |
| t | | 62 | † | ╁╴ | ┪ | _ | ╁ | _ | - | ╁ | + | | - | + | |
| t | - | 63 | †- | t | + | | + | ٦ | Η- | + | + | | \vdash | + | _ |
| t | | 64 | 1- | t | 7 | | $^{+}$ | - | - | + | + | _ | | + | - |
| t | | 65 | T | t | 7 | _ | t | + | | $^{+}$ | + | _ | | + | |
| Ī | | 66 | \vdash | T | 7 | _ | T | 7 | | † | ✝ | | - | †- | _ |
| Γ | - | 67 | 1 | ✝ | 7 | | †- | 1 | _ | † | \uparrow | | | + | _ |
| Γ | | 68 | | T | ┪ | | T | | | T | 7 | | | t | |
| Γ | | 69 | T | 1 | 7 | | † | 7 | | 1- | T | | _ | \dagger | |
| | | 70 | Г | T | 1 | | Τ | 7 | | T | 1 | | _ | T | _ |
| | | 71 | Г | Γ | | | T | 1 | _ | T | 1 | 7 | _ | T | _ |
| Г | | 72 | | Г | 1 | _ | T | 7 | | 十 | \dagger | | _ | t | _ |
| | | 73 | | | | | T | T | | \top | T | T | | T | |
| L | | 74 | | L | \perp | | Г | | | Ι | T | | | Т | ٦ |
| Ĺ | | 75 | _ | L | 1 | | L | 1 | | | Ι | | | | |
| \vdash | | 76 | _ | L | 4 | _ | L | 4 | _ | L | ↓ | _ | | L | _ |
| \vdash | | 77 | | _ | + | | ↓ | 4 | | L | 1 | 4 | | L | 4 |
| H | | 78 79 | | _ | + | | L | 4 | | | 1 | 4 | | L | 4 |
| \vdash | | 79 | | _ | + | _ | ↓_ | 4 | _ | <u> </u> | 1 | 4 | | L | ┙ |
| H | | 80 | | | + | _ | L | 4 | _ | 1 | 4 | 4 | | L- | 4 |
| ⊦ | \dashv | 81 82 | _ | _ | + | _ | ⊢ | + | | ┞ | + | 4 | | L | _ |
| ┝ | - | 83 | - | | ╀ | _ | - | + | _ | ⊢ | ╀ | 4 | | L | 4 |
| ┝ | | 84 | \dashv | _ | ╁ | _ | ⊢ | + | _ | | ╀ | 4 | | L | 4 |
| H | - + | 85 | | | ╁ | _ | - | + | | | ╀ | + | _ | <u> </u> | 4 |
| H | -+ | 86 | - | _ | + | _ | ┝ | $^{+}$ | | ┝ | ╀ | + | _ | - | 4 |
| r | $\neg +$ | 87 | - | _ | ╁ | - | - | ╁ | - | H | ╁ | + | | ┝ | ┨ |
| H | 十 | 88 | \dashv | _ | \dagger | | - | + | _ | | ╁ | + | | ┝ | ┨ |
| Γ | _ | 89 | 7 | _ | t | ٦ | | t | | \vdash | + | + | | - | 1 |
| Γ | 一 | 90 | | _ | t | 7 | | t | | - | + | + | ٦ | _ | 1 |
| | | 91 | | _ | T | T | | T | | | T | † | ٦ | | 1 |
| | | 92 | | | Ι | J | | T | | | T | 1 | | | 1 |
| L | \perp | 93 | \Box | | Γ | | | | | | | | | | |
| L | | 94 | _[| | Ĺ | _[| _ | Ĺ | | _ | | Ι | | |] |
| | | 95 | \perp | | L | \downarrow | | L | J | | Ĺ | \int | _] | | |
| <u>_</u> | \dashv | 96 | 4 | | L | 4 | | L | _ļ | | _ | 1 | 4 | | 1 |
| _ | | 97 | \dashv | _ | L | 4 | _ | 1 | 4 | | _ | 1 | 4 | | 1 |
| | \dashv | 98 | 4 | _ | L | 4 | | L | 4 | | L | 1 | 4 | | 1 |
| - | | 99 | + | | - | + | | \vdash | 4 | _ | <u> </u> | + | 4 | | - |
| | | 100 | | | <u> </u> | | | L | _1 | | L | L | ┙ | | j |

| Г | Claim | Т | | | | | | Dat | e | | | |
|--|------------|----------|----------|----------|---|---------|-----------|----------|----------|---------|--------------|-----------------|
| | | T | T | | Γ | Т | T | | Ť | Т | Т | T |
| Final | Original | | ı | | | 1 | Ì | | | 1 | - 1 | |
| 🛅 | . F. | İ | ı | | 1 | | - 1 | | ı | 1 | - | - |
| 1 | 10 | 1 | 1 | | | 1 | | | L | | | |
| | 101 | T | T | | | 1 | 7 | | 1- | 1 | 1 | 十 |
| | 102 | | Т | | | T | ╗ | | T | 1 | _ | \top |
| _ | 103 | | | | | T | | | Т | T | T | |
| \perp | 104 105 | | | | | Т | ٦ | | Γ | T | T | \top |
| | 105 | _ | | | | | \exists | | | T | \top | \top |
| | 106 | L | L | | | | | | Γ | Т | | \top |
| | 107 | L | L | | _ | \perp | \perp | _ | | | | |
| - | 108 | L | L | _ | | ┸ | \perp | | L | \perp | | |
| <u> </u> | 109 | <u> </u> | ╀ | _ | _ | 1 | 4 | | L | ┸ | ┸ | |
| | 110 | <u> </u> | ╀ | 4 | | 1 | 4 | | L | 1 | | |
| <u> </u> | 111 | <u> </u> | ╀ | 4 | | ╀ | 4 | | _ | ┸ | _ | _ _ |
| | 112 113 | <u> </u> | ╀ | 4 | _ | 4 | 4 | | _ | \perp | 4 | _ _ |
| | 113 | <u> </u> | ╀ | 4 | _ | ╀ | 4 | _ | L | \perp | \perp | |
| <u> </u> | 114 | <u> </u> | ╀ | 4 | | ╀ | + | | _ | \perp | - - | \perp |
| | 115 116 | | ₽ | 4 | _ | ╀ | 4 | _ | _ | 4- | + | |
| ├─ | 117 | \vdash | ┞ | + | | ╀ | 4 | _ | _ | ╀ | 4 | _ |
| <u> </u> | 118 | _ | ╀ | + | | ╀ | + | - | _ | ╀ | - - | + |
| | 119 | | ⊢ | + | | ╀ | + | - | | ╀ | + | |
| | 120 | | ├ | + | | ⊬ | + | - | | ╀ | + | |
| | 120 121 | _ | ┝ | + | | ╀ | + | - | | ├- | +- | ╄ |
| <u> </u> | 122 | | ┝ | + | | - | ╁ | - | _ | +- | +- | +- |
| - | 122 123 | | ┝ | ╁ | | ╁╴ | ╁ | \dashv | - | ⊢ | ╁ | - |
| _ | 124 | | \vdash | + | _ | ┢ | + | ┪ | | +- | ╁ | ╫ |
| | 125 | | Н | $^{+}$ | | - | ╁ | 7 | _ | ┢ | +- | +- |
| _ | 125 126 | | _ | + | | H | + | + | _ | ┢ | 十 | +- |
| | 127 | | | + | | | 1 | 寸 | _ | ┢ | \top | t |
| | 128 | | | T | | | Ť | 7 | | | 1 | † |
| | 129 | | | Т | | | 1 | 7 | | Г | ✝ | 1 |
| | 130 131 | | | I | | | Ι | | | | 1 | T |
| | 131 | | _ | I | | | I | | | | | 1 |
| | 132 | _ | | 1. | | | L | | | | Ī | \prod |
| | 133 | _ | | L | | | | | | | | |
| | 134 | _ | | ╀ | _ | | ┸ | _ | | _ | 丄 | |
| | 135 | | | ╄ | 4 | _ | 1 | 4 | _ | | <u> </u> | Ш |
| | 136 | - | | ╀ | _ | | L | 4 | _ | _ | <u>Ļ</u> _ | Ш |
| | 137 | - | | ╀ | 4 | | +- | + | _ | _ | 1 | \sqcup |
| | 138 139 | \dashv | _ | \vdash | - | | ╁ | - | - | _ | 1 | \vdash |
| | 140 | \dashv | _ | \vdash | 4 | | ├ | + | \dashv | | \vdash | \vdash |
| | 141 | \dashv | | ╁ | + | | + | + | \dashv | | | $\vdash \vdash$ |
| | 142 | \dashv | | + | + | - | 1 | + | - | - | \vdash | \vdash |
| | 143 | 7 | | T | + | | t | + | - | | - | \vdash |
| | 144 | \dashv | | T | + | | ✝ | † | + | | - | ├┤ |
| | 145 | + | | Т | 7 | | \vdash | † | + | | | H |
| | 146 | \top | | | † | | Γ | T | 寸 | | _ | $\vdash \vdash$ |
| | 147 | 7 | | | † | | 1 | T | 7 | | - | \dashv |
| | 148 | \top | | _ | † | | | † | 7 | | | \vdash |
| | 149 | | | | j | | | T | 7 | | | \neg |
| | 150 | I | | | J | | | | 7 | | | \dashv |
| | | | | _ | | _ | | _ | | | | |